

ABSTRACT OF THE DISCLOSURE

A method of effectively purifying sulfuryl fluoride, which is useful as an insulating gas in electrical devices or as a pesticide and which frequently is contaminated with sulfur dioxide, hydrogen fluoride and/or hydrogen chloride. In the method, contaminated sulfuryl fluoride is contacted with or conducted over an alkali fluoride, e.g. potassium fluoride. The purification can be carried out during sulfuryl fluoride production, during storage of sulfuryl fluoride and/or before or during use of the sulfuryl fluoride, for example, as a pesticide.